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NIH 4-18-61

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NIH 5-37-65

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Navy Tr 3214/APL T306

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Sep 62

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Fluorescence and Degree of Fluorescence
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Further Contribution to the Problem of Meta-
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NIH 3-65-62

198, 615

Sci - Med
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On radiographic Measurement of the Deformation
Band of Single Dislocations, by U. Bonse,
E. Kappler, F. J. Simon, 7 pp.

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SLA 60-16866

Sci
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Aug 63

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Navy Tr 3439/APL 310

Sci - Phys
Aug 63

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Plasma Across a Magnetic Field, by
L. Biermann
GERMAN, per, Zeitschrift fuer Naturforschung.
Ausgabe A, Vol 15, 1960, pp 10-12
NTC 71-15268-201

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The Observability of Superthermal Electric Field
Fluctuation in Plasmas by Means of Spectroscopic
Measurements, by H. Wulff.

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1960,

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Co-Operative Phenomena and Diffusion of
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Sci - Phys
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CONCERNING THE NEEDLE GROWTH WITH THE
OXIDATION OF COPPER [Über das Nadelwachstum bei
der Oxydation von Kupfer, II]. Pt. 2 on Whisker-Growth
during the Oxidation of Copper. [1963] 32p (figs
formulae refs omitted)
Available on loan from SLA

TT-63-20247

Trans. in manuscript of Zeitschrift für Naturforschung
(West Germany) 1960, v. 15a, p. 59-65.

DESCRIPTORS: *Copper, Oxidation, *Single crystals,
*Whiskers (Crystallography), *Crystal growth

See also 63-18831

(Physics--Solid State, TT, v. 11, no. 1)

TT-63-20247

I. Albert, L.
II. Jaenicks, W.
III. Title: On...

Office of Technical Services

On the Possibility of the Directed Introduction of
Deuterium and Tritium in Nuclear Fusion Experiments,
by E. W. Becker, R. Klingelhofer, P. Lohse, 5 pp.

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9093619

AEC Tr-4791

Sci - Nuc Phys
Dec 61

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Bio Lab T-529-1

R-8679-D

11 Sept. 67

Eigenschaften einer infektiösen Nucleinsäure-Fraktion
aus Hühner-embryonen die mit Encephalitis-Virus
infiziert wurden

By: WECKER, Eberhard

From: Zeit. Naturfor. 156, 1960:71-78

(8 pp)

German - est for wds:

Please translate and type 1 camera ready copy.

Please make cover as sample attached. Document can be
cut. T-529-1

Detection of Individual B Particles With
Germanium and Silicon Surface Diodes,
by H. D. Engler.

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Vol XVa, No 1, 1960, pp 82-84.

CSIRO

Sci - Chem

191, 747

Apr 62

Opposition of Galba Truncatula to Sodium-
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Diwel

GERMAN, per, Zeit. fur Naturforsch, Vol 166,
1960, pp 134-151.

NLL Ref: 5828.4F (12723)

Sci-Agriculture
July 68

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S-935/63

The Activation Energy for the Transverse
Slippage of Split Spiral Dislocations, by
Helmut Wolf, *378*

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(Special)

Sci - M/M
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Oscillation of a Plasma Cylinder in an Axial
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Vol 15a, 1960, pp 220-226.

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Sci-Physics

Dec 67

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Concerning the Temperature Dependence of the
Absorption Edge in CdS-Crystals, by
Heinz Radelt, 7 pp.

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FED-TT-62-129

Sci - Chem, Phys

3 May 62

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Inactivation of Lactic Dehydrogenase with Slow
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P911388567

AEC ORNL-Tr-1760

Sci-Chemistry
Dec 67

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On the Excitation and Luminescence Mechanism of Inert Gases and Inert Gas Mixtures During Bombardment with Fast Electrodes, by Wolfgang Friedl.

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Vol 15a, 1960, pp 398-404.

Dept of Navy NOL-803TT

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Jan 69

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63-18817

Dachauk, W. D. and Pfeifferkorn, G.
STRUCTURE OF COPPER OXIDE WHISKERS AND
DETERMINATION OF THEIR GROWTH IN LENGTH.
[1968] [14p] (Sign refs omitted)
Order from SLA \$1.60

63-18817

I. Dachauk, W. D.
II. Pfeifferkorn, G.

Thema. of Zeitschrift für Naturforschung (West
Germany) 1968, v. 13(a) p. 412-417.

DESCRIPTORS: *Copper compounds, Oxides, *Whisk-
ers (Crystallography), Crystal structure, Determina-
tion, *Single crystals, Corrosion, *Metallic crystals,
Crystal growth

By using silver and HCl copper oxide whiskers were
grown between 200° and 300°C. that were measurable
with the light microscope. They form CuO single
crystals along [110] at the boundaries of the whiskers.
six-sided prisms frequently appeared. The growth in
length proceeded linearly (i. e. $\propto \sqrt{t}$) till inhibition.
(Physics--Solid State, TT, v. 10, no. 11) (over)

Office of Technical Services

Types of Motion in the Linear Pinch Effect and
Runaway Electrons, by E. Fuenfer, G. Lehner,
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pp 566-574. 9095567

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Mar 62

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The Diffusion of Xe^{133} , Rn^{222} and I^{131} in
Thorium Oxide, by H. J. Matske,
R. Lindner.

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AEC Tr-5178

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Negative Electrical Conductivities, by J. Schneider,
19 p.

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XV a No 5/6, 1960, pp 484-489.

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Sci-Phys
Jul 66

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S-935/63

The Temperature and Velocity Relationship of the
Solidification of Cubic-Face-Centered Metal
Monocrystals, by Rolf Berner, 3100.

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Vol XVa, No 3, 1960, pp 639-706.

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*JPRS/SF-2368
(Special)

Sci - M/M
Oct 63

Reversal of Jet Separation in Over-
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NLL Ref: 9091.9F (CA Trans 191)

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July 69

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Jet Sepazation Technique, by E. W.
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15A, 1960, pp. 714-23.
NLL Ref: 9091.9F (CA Trans 192)

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July 69

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Non-Linear Elasticity Theory of Straight Dis-
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GERMAN, per, Zeits. fur Naturforschung, Vol 15a
1960, pp 758-772. P911067267
AEC AERE-tr-1061

Sci/Materials
Mar 67

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I. Koch, G.

Koch, Gebhard.
ON THE DISPARATE INFECTIVITY OF ISOLATED
RIBONUCLEIC ACID AND COMPLETE POLIOVIRUS
IN TISSUE CULTURES (Zur Unterscheidlichen
Infektiosität von isolierter Ribonucleinsäure und
intaktem Poliovirus in der Gewebekultur). [1962]
17p. 14 refs.

Order from SLA \$1.60

62-16286

Trans. of Zeitschrift für Naturforsch[ung] (West
Germany) 1960, v. 15b, no. 10, p. 656-661.

DESCRIPTORS: *Nucleic acids, *Polomyelitis
virus, Culture media, Tissue culture, Tissues
(Biology), *Genetics.

(Biological Sciences--Microbiology, TT, v. 8, no. 9)

Office of Technical Services

Investigations on the Hemagglutinating Noninfectious
Particles of the Influenza Viruses. First Report:
The Production of "Incomplete Forms" in the Virus
of Classic Chicken Plague (von Magnus Phenomenon),
by T. Rott, W. Schafer.

GERMAN, per, Z Naturforschung, No 15b, pp 691-693,
1960.

NIE 9-6-62

Sci - Med

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Ausgabe A, Vol 15, 1960, pp 815-822

NTC 72-60553-20L

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ERDL Ft Belvoir
T-1302

Sci - Phys

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Investigation of Thermal Relaxation in Nozzle Flows
by Analysis of the Gas-Kinetic Velocity Distribution,
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AEC-TRG-Int Ser-358

Amer. Meteor. Soc.

T-6-213

Sci-Nucl Sci
Jun 64

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Investigation of Electron Density in a
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H. Hermansdorfer, 11 pp.

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AEC NP-Tr-669

Sci
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Sodium 22 in the Meteorite Breitscheid,
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Vol XVI, pp 1004-1007, Nov 1960. 9081707

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REC 5-4777
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Sci - Chem

Oct 61

Single and Plural Scattering of Charged Particles,
by E. Kell, E. Zeitler, et al, 15 pp.
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METHODS FOR THE EXPERIMENTAL DETERMINA-
TION OF HIGH-ORDER ELASTIC CONSTANTS.

[1961] 19p.

Order from ATS \$23.95

ATS-31N51G

Trans. of Z[eitschrift für] Naturforsch[ung]
(West Germany) 1960, v. 15a, no. 12, p. 1056-1067.

DESCRIPTORS: *Elasticity, Determination.

ATS-910-63

61-22658

- I. Seeger, A.
- II. Buck, O.
- III. ATS-31N51G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

175350

Diffusion of Radon in Oxides After Recoil Doping,
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pp 1082-1086. 9093451

ANC Tr-5058

Sci - Chem
May 62

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Comparison Between the Oveberg, Maximal Gradient
and Three-Point Methods for the Evaluation of Curves
of the Ultracentrifuge Obtained With Philpot-
Svensson Optical System, by M. Gehatia, L. Hubner.

GERMAN, per, Z fuer Naturforschung, Vol IVb, 1960,
pp 351-364.

NIH 5-12-63

Sci - Math

Aug 63

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SWELLING OF COLLAGEN FIBRILS, BY H. GANSLER, 3 PP.

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1960, P 414.

NIH 6-8-62

SCI - MED

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AU G 62

Catalase Content of Virus-Infected Tissue,
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GERMAN, per, Z. Naturforsch., Vol XVB, No 7,
1960, pp 448-449.

HTH 3-10-62

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Sci - Med

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Do Stretched Si-O-Si Bonds Exist? by
F. Liebau.

GERMAN, per, Zeit fur Naturforschung,
Vol 15 B, No 7, 1960, pp 468-469.

NTC 69-10883-07B

Sci-Chem
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Investigations of Rapid ATP Reactions in Aqueous
Solution by Means of Relaxation Spectrometry, by
H. Diebler, 13 pp.
GERMAN, per, Zeit Naturforschung, Vol XVb, 1960,
pp 554-560.
NIH 2-21-64

Sci - Biol & Med
Apr 64

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Investigations on the Hemagglutinating Noninfectious
Particles of the Influenza Viruses. First Report:
The Production of "Incomplete Forms" in the Virus
of Classic Chicken Plague (von Nagels Phosphat),
by T. Rott, W. Schafer.

GERMAN, per, Z Naturforschung, No 15b, pp 691-693,
1960.

NIH 9-6-62

Sci - Med

Examination of Electron Microscope
Images of Sections of Healthy and Diseased
Dentine, by H. J. Hoehling.

GERMAN, per, Z. fur Naturforschung, Vol XVb,
No 11, 1960.

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Sci
Dec 62

Biogenesis of Isoflavones. ~~III~~, by H. Grisebach,
G. Brandner.

GERMAN, per, Zeitschrift fuer Naturforschung,
No 1, 1961, pp 2-5.

CSIRO/No 6057

Sci-Biol
May 63

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62-18708

Seeman, H. J., Schmidt, G., and Stavenow, F.
INVESTIGATIONS ON QUANTITATIVE X-RAY FLUO-
RESCENT ANALYSIS. [1962] [16]p. 4 refs.
Order from SLA \$1.60 62-18708

I. Seeman, H. J.
II. Schmidt, G.
III. Stavenow, F.

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a [no. 1] p. 25-30.

DESCRIPTORS: *X-rays, *Fluorescence, Analysis,
Excitation, Equations, Iron, Nickel, Alloys, Scintilla-
tion counters, Bremsstrahlung, Continuous spectrum,
*Quantitative analysis.

The fluorescence intensity formed with excitation from
a customary X-ray tube was calculated for a binary
system and compared with experimentally determined
values. It showed a very good agreement. Based on
these results and under simplifying assumptions, a
linear system of equations was formulated which permits
(Metallurgy, TT, v. 9, no. 10) (over)

Office of Technical Services

The Potassium Content of Chondrites, Achondrites,
and Siderites, by H. Wanke, pp 62-74.

GERMAN, per, Z Naturforsch, Vol XVIa, Jan 1961,
pp 127-131.

AEC AFCL-TR-60-411

Sc1
Sep 61

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Groth, R.
ON INFRARED DETECTORS BASED ON PHOSPHORS.
[1961] 9p. 5 refs.
Order from SLA \$1.10

61-20826

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, no. 2, p. 169-172.

DESCRIPTORS: *Infrared detectors, Design, *Infrared
phosphors, Excitation, Detectors, Phosphors.

An infrared detector is proposed which is based on the
stimulation of infrared-sensitive phosphors. The prin-
ciple of such a detector is explained and experimental
results are described which were obtained with an
SrS-Ce-Sm phosphor, by means of which a sensitivity
of 6×10^{-11} watt was obtained for wave lengths of the
order of μ . (Author)
(Physica--Optics, TT, v. 7, no. 2)

61-20826

1. Groth, R.

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Triple Isomerism in Ir¹⁹⁴, by K. F. Alexander,
H. F. Brinckmann, 3 pp.

GERMAN, per, Z fuer Naturforschung, Vol XVia, 1961,
p 210. 9079915

AFC Tr-4648

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Sci
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The Statistical Distribution of Electro-Negative
Gases with High Field Strength, by W. Lagler.
GERMAN, per, Zeit Naturforschung, Vol 16a, 1961,
pp 253-261.
C.E. Trans 5308

Sci-
June 70

Properties of Vaporised InSb and InAs Films, by
K. G. Gunther, H. Freller, 7 pp.
GERMAN, per, Zeit fuer Naturforschung, Vol XVIa,
No 3, 1961, pp 279-283.
A.C.S.I.L. Tr 1448

Sci - Chem
Apr 64

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The Statistics of Electron Discharges in Electronegative Gases at High Field Strengths and With Large Gas Amplification, by W. Legler. GERMAN, per, Zeitschrift für Naturforschung, Vol 16a, 1961, pp 253-261.
CEGB-5308

June 71

The Sense Organ of Equilibrium of Meal Beetles
(Tenebrio Molitor) and Yellow-Fever Mosquitoes,
by Ulrich Baseler, 6 pp.

GRUNN, per, Zeitschrift für Naturforschung,
Vol XVIIb, No 4, 1961, pp 284-287.

NIN 7-40-63

Sci - Biol & Med
Sep 63

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Properties of Evaporated InSb and InAs
Films, by K. G. Guenther, H. Freller.
GERMAN, per, Zeitschrift fuer Naturforschung,
Vol 16a, 1961, pp 279-83.
SEA TT-66-11032

332 224

Sci
Jul 67

Investigation of Atomic Vacancies in Cu, and Au
by Means of Electric Resistance, by Wolfgang
Schuele, Alfred Seeger, Falko Hamsteiner, Dieter
Schumacher, Kenneth King, 5 pp.
GERMAN, per, Zeitschrift für Naturforschung,
Vol 16a, 1961, pp 323-325. P911189267
AEC ANL Tr-465

327,869

Sci - Nuclear Science
Jun 67

The Thermoelectric Power of Metal Films, by
E. Justi, M. Kohler, et al.

GERMAN, per, Zeitschrift fuer Naturforschung,
~~XXXXX~~ No 6A, 1961, pp 456-459.

*AEC

Sci - Phys

May 63

TT-64-10905

Harten, H. U.
SURFACE CONDUCTIVITY AND SURFACE RECOM-
BINATION AT THE SILICON-ELECTROLYTE INTER-
FACE. [1964] 15p (3 refs omitted) 14refs
Order from SLA \$1.60 TT-64-10905

1. Harten, H. U.

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a [no. 5] p. 459-466.

(Chemistry--Physical, TT, v. 11, no. 12)

Office of Technical Services

Determination of Temperature and Velocity
of a Plasma Stream in a Plasma Burner, by
B. Ahlborn.

GERMAN, per, Z. Naturforsch, Vol XVIIa,
1965, pp 466-474.

NASA TT F-10,286

Sci-Phys

Dec 66

U. S. GOVERNMENT USE ONLY

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The Measurement of Extremely Short Dissociation
Times of Organic Ions With the Field Ionization
Mass Spectrometer, by H. D. Beckey, 16 pp.

GERMAN, per, Z Naturforschg., Vol XVIa, 1961,
pp 505-510. 9023615

AEC UCR. Tx-710

Sci - Phys
Dec 61

177, 455

Extraction of Uranium, Plutonium, Ruthenium, and
Zirconium With Tri-n-octylamine, by Von Werner
Knoch, 4 pp.

GERMAN, per, Z Naturforsch, Vol XVII, 1961, pp 525-527
9093524

AEC Tr-5197

Sci - Min/Metals
Jul 62

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Determining the Kr ⁸⁵ Content of the Air, by
O. ~~Griess~~ Griesser, A. Sittkus, 5 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol & XVIa, No 6, 1961, 4 pp.

CIA/FDD X-4941

Sci - Nuclear Phys

Jul 62

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R-777-H-A

GERMAN, per, Z. fuer Naturforschung, Vol XVIa,
No 6, 1961, pp 539-547.

*JPRS for Picatinny Arsenal

Sci -

6 Nov 61

R-777-H-B

GERMAN, per, Z. fuer Naturforschung, Vol XVIa,
No 6, 1961, pp 548-562.

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Sci

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Separation of isotopes in a circular column, by
H. J. Lorenz, in G. Roller, 16 pp.

GERMAN, Z. Naturforschung, Vol XVIIa,
No 6, 1961, pp 569-577. 9092290

ASC Tr 4775

Sci - Chem, Phys
Nov 61

172, 418

Angular Distribution of Hydrogen and Argon Ions
from a High Frequency Source, by H. Lob and S.
Peyerimhoff.

GERMAN, par, Z. Naturforschg., Vol 16a, 1961,
pp 621-624.

NTIC Trans. No. 1815

Sci/ Electronics

Jan 68

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Hydromagnetic Instabilities of the Tubular Pinch
Effect, by G. Lehner,
GERMAN, per, Z fuer Naturforschung, Vol ~~XIII~~ XVIa,
No 7, 1961, pp 700-711,
NASA TT F-9038

Sci-Phys

Aug 64

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63-12886

Schneider, Jürgen and Rüuber, Armin.
THE PARAMAGNETIC RESONANCE OF DONORS IN
ZINC OXIDE (Paramagnetische Resonanz von Donatoren
in Zinkoxyd) tr. by C. H. Amberg. 1963, 6p. 8 refs.
NRCC Technical trans. 1061.
Order from NRCC \$0.50

NRCC C-4308

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, p. 712-714.

DESCRIPTORS: *Metal crystals, Powders, *Zinc com-
pounds, *Oxides, Impurities, *Paramagnetic resonance,
Spectroscopy.

(Physics--Solid State, TT, v. 9, no. 9)

- I. Title: Donor impurities
- I. Schneider, J.
- II. Rüuber, A.
- III. NRCC TT-1061
- IV. NRCC C-4308
- V. National Research
Council of Canada

Office of Technical Services

62-14440

Fleischmann, H.
**THERMAL CONDUCTIVITY AND ELECTRICAL
CONDUCTIVITY OF SEMICONDUCTOR OF THE
FORM (AI_{1-x}B_xCV)₂DM₂**. Dissertation, Marburg,
1961. [1962] 34p. 36 refs.
Order from SLA \$3.60

62-14440

Trans. of Zeitschrift für Naturforsch[un]g (West
Germany) 1961, v. 16a [no. 8] p. 765-780.

DESCRIPTORS: *Semiconductors, Electrical conduct-
ance, Thermal conductivity, Thermoelectricity,
Zone melting, Silver, Lead, Antimony, Tellurium,
Solids, Liquids.

(Physics--Solid State, TT, v. 8, no. 2)

I. Fleischmann, H.

Office of Technical Services

Winkler, H.
THE NUCLEAR MAGNETIC RELAXATION TIME OF
WATER SORBED BY ALUMINUM OXIDE. [1962]
15p.

Order from ATS \$22.60

ATS-24P59G

Trans. of Zeitschrift für Naturforschung (West
Germany) 1961, v. 16a, p. 780-790.

DESCRIPTORS: *Aluminum compounds, Oxides, *Mag-
netic properties, *Relaxation time.

ATS-911-GJ

(Chemistry--Inorganic, TT, v. 8, no. 5)

62-17139

- I. Winkler, H.
- II. ATS-24P59G
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

A. Saupe

Methods of Determining the Degree of Order of
Nematic Crystalline Liquid Layers. The Degree
of Order of Azoxyanisole.

GERMAN, per, Zeitschrift fuer Naturforschung.
Ausgabe A, Vol 16, 1961, pp 816-824

NTC 72-60554-20L

Oct 72

The Diffusion of Uniformly Distributed Rare
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